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ABSTRACT OF THE DISCLOSURE

Method and apparatus are provided for polishing substrates comprising conductive and low k dielectric materials with reduced or minimum substrate surface damage and delamination. In one aspect, a method is provided for processing a substrate including positioning a substrate having a conductive material formed thereon in a polishing apparatus having one or more rotational carrier heads and one or more rotatable platens, wherein the carrier head comprises a retaining ring and a membrane for securing a substrate and the platen has a polishing article disposed thereon, contacting the substrate surface and the polishing article to each other at a retaining ring contact pressure of about 0.4 psi or greater than a membrane pressure, and polishing the substrate to remove conductive material.

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